

IN THE SPECIFICATION:

Please replace the paragraphs at page 7, lines 8-12 with the following:

FIGS. 15(a), 15(b) and 17 show a construction of a conventional distance measuring
C1 device;

FIGS. 16(a), 16(b) and 18 show the dislocation of the optical system and sensor
layouts in the distance measuring device of FIG. 15(a); and

FIG. 19 illustrates the image-forming condition on the sensor of the first
embodiment.

Please replace the paragraph at page 10, lines 11-22 with the following:

16 The image interval X is determined based on the position D illustrated in FIG. 5 at
which the value of the correlation coefficient series $f(i)$ is minimum. Since the correlation
coefficient series $f(i)$ is an intermittent value for each predetermined interval (i.e., an
integer multiple of the interval p), the position D of the reference part M most closely
matching the standard part N can be determined by appropriate interpolation via well-
known methods using the smallest correlation coefficient, e.g., $f(5)$, included between a
plurality of correlation coefficients, e.g., $f(3)$ - $f(7)$, and a more detailed image interval X
can thereby be calculated.